DATA SHEET

Three Phase Induction Motor - Squirrel Cage



0.80

Customer

Product line : W22 NEMA Premium Efficiency Product code: 11416668

Three-Phase

Catalog #: 00518ET3E184T-W22

Frame : 182/4T Cooling method : IC411 - TEFC

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)

: -20°C to +40°C Ambient temperature Starting method : Direct On Line

: 1000 m.a.s.l. Approx. weight³ : 101 lb Altitude

Protection degree : IP55 Moment of inertia (J) : 0.4003 sq.ft.lb Design : B

Output [HP] 5 4 5 4 Poles 4 4 4 4 4 4 4 Frequency [Hz] 60 50 50 50 50 50 50 Rated voltage [V] 230/460 380 400 380 400 415 415 Rated current [A] 12.9/6.45 6.42 7.74 7.44 6.13 6.14 7.35 L. R. Amperes [A] 96.7/48.4 44.9 47.6 44.9 47.2 50.4 50.7

LRC [A] 7.5x(Code J) 7.0x(Code J) 7.7x(Code K) 8.2x(Code L) 5.8x(Code 6.4x(Code H) 6.9x(Code J) G) No load current [A] 6.40/3.20 3.15 3.45 3.70 3.15 3.45 3.70 Rated speed [RPM] 1755 1455 1455 1460 1440 1445 1450 Slip [%] 2.50 3.00 3.00 2.67 4.00 3.67 3.33 Rated torque [ft.lb] 15.0 14.4 14.4 14.4 18.2 18.2 18.1 Locked rotor torque [%] 229 229 260 290 180 210 229 Breakdown torque [%] 320 300 350 380 240 280 300 Service factor 1.25 1.15 1.15 1.15 1.15 1.15 1.15

80 K Temperature rise 80 K 80 K 80 K 80 K 80 K 80 K 21s (cold) Locked rotor time 27s (cold) 21s (cold) 21s (cold) 21s (cold) 21s (cold) 21s (cold) 15s (hot) 12s (hot) 12s (hot) 12s (hot) 12s (hot) 12s (hot) 12s (hot) Noise level² 56.0 dB(A) 25% 88.2 87.7 86.4 86.2 89.2 0.88 88.1 50% 88.5 87.5 86.7 86.5 88.5 87.5 87.5 Efficiency (%) 75% 89.5 88.2 88.2 88.2 87.5 88.5 88.5 100% 86.5 89.5 87.7 88.2 88.2 87.5 87.5 25% 0.37 0.37 0.33 0.30 0.43 0.39 0.36 50% 0.62 0.61 0.57 0.53 0.69 0.65 0.61 Power Factor 0.74

75% 0.74 0.75 0.71 0.67 0.80 0.77 100% 0.80 0.81 0.79 0.76 0.84 0.82 Non drive end Drive end Foundation loads

6207 ZZ Bearing type 6206 ZZ Max. traction : 296 lb V'Ring V'Rina : 398 lb Sealing Max. compression Lubrication interval

Lubricant type Mobil Polyrex EM

Lubricant amount

USABLE @208V 14.3A SF 1.15 SFA 16.4A

This revision replaces and cancel the previous one, which must be eliminated.

- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

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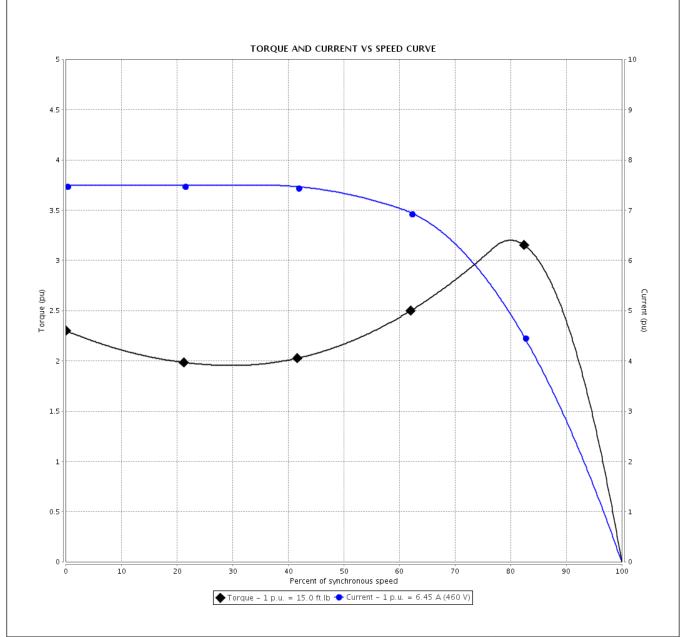
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11416668

Catalog #: 00518ET3E184T-W22



: 230/460 V 60 Hz 4P Performance Rated current : 12.9/6.45 A Moment of inertia (J) : 0.4003 sq.ft.lb **LRC** : 7.5 Duty cycle : Cont.(S1) : F : 15.0 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 229 % : 1.25 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 1755 rpm Design : B

Locked rotor time : 27s (cold) 15s (hot)

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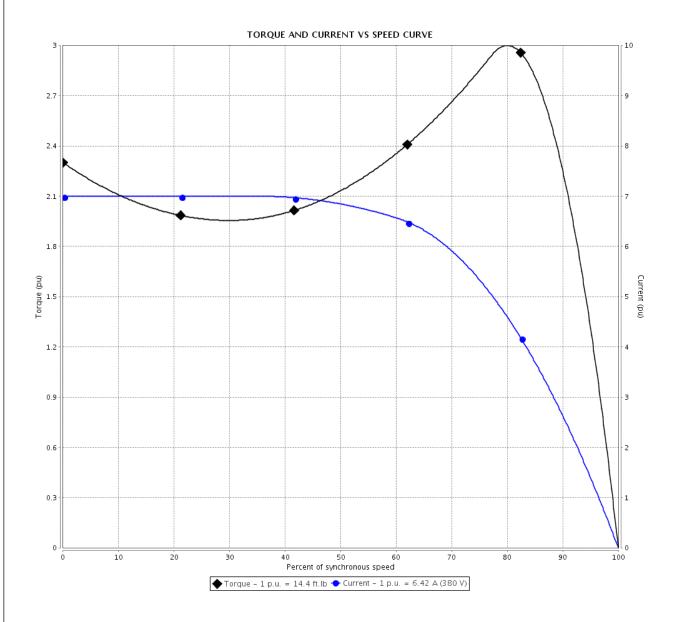
Customer

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11416668

Catalog #: 00518ET3E184T-W22



Performance : 380 V 50 Hz 4P IE3 Rated current : 6.42 A Moment of inertia (J) : 0.4003 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 14.4 ft.lb : 229 % Locked rotor torque Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K : B Rated speed : 1455 rpm Design

Locked rotor time : 21s (cold) 12s (hot)

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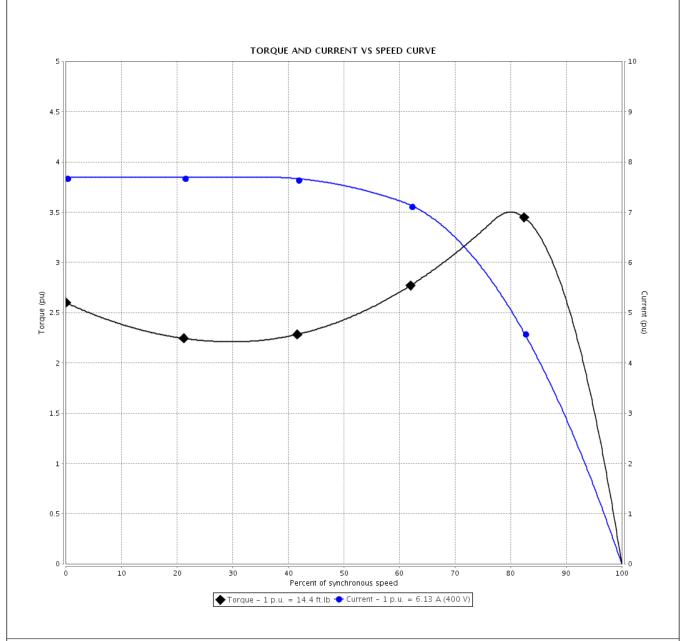
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11416668

Catalog #: 00518ET3E184T-W22



: 400 V 50 Hz 4P IE3 Performance Rated current : 6.13 A Moment of inertia (J) : 0.4003 sq.ft.lb **LRC** : 7.7 Duty cycle : Cont.(S1) : F : 14.4 ft.lb Insulation class Rated torque : 260 % Service factor Locked rotor torque : 1.15 : 80 K Breakdown torque : 350 % Temperature rise Rated speed : 1455 rpm Design : B

Locked rotor time : 21s (cold) 12s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 NEMA Premium Efficiency Product code: 11416668 Three-Phase Catalog #: 00518ET3E184T-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 Torque (pu) Current (pu) 0.5 100 Percent of synchronous speed ◆ Torque - 1 p.u. = 14.4 ft.lb ◆ Current - 1 p.u. = 6.14 A (415 V) Performance : 415 V 50 Hz 4P IE3 Rated current : 6.14 A Moment of inertia (J) : 0.4003 sq.ft.lb **LRC** : 8.2 Duty cycle : Cont.(S1) Insulation class : F Rated torque : 14.4 ft.lb : 290 % Locked rotor torque Service factor : 1.15 Breakdown torque : 380 % Temperature rise : 80 K Rated speed : 1460 rpm Design : B Locked rotor time : 21s (cold) 12s (hot) Date Rev. Performed Checked **Changes Summary**

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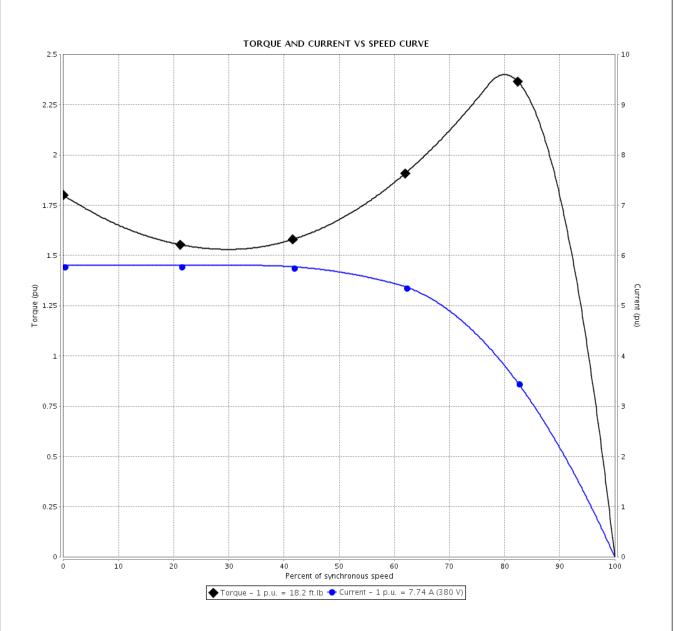
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Three-Phase

Product code: 11416668

Catalog #: 00518ET3E184T-W22



Performance	: 380 V 50 Hz 4P IE2		
Rated current	: 7.74 A	Moment of inertia (J)	: 0.4003 sq.ft.lb
LRC	: 5.8	Duty cycle	: Cont.(S1)
Rated torque	: 18.2 ft.lb	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1440 rpm	Design	: B
Locked rotor time	: 21s (cold) 12s (hot)		

Locked rotor time : 21s (cold) 12s (hot)

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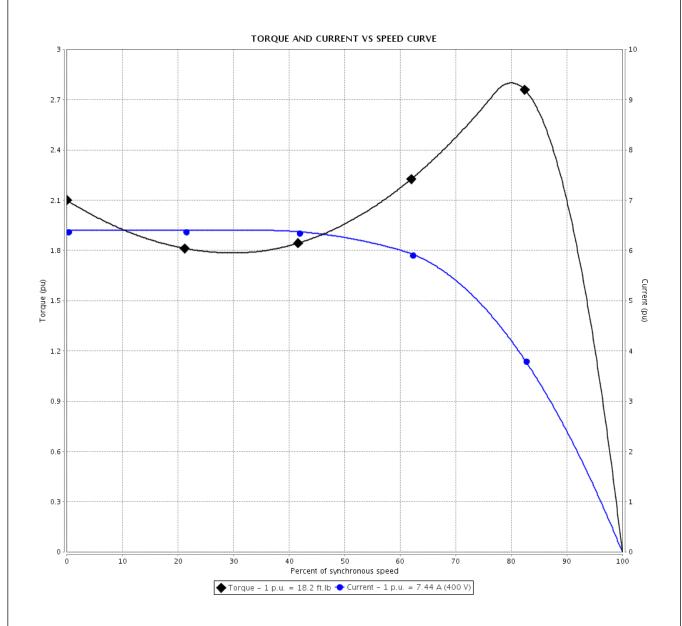
Customer

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11416668

Catalog #: 00518ET3E184T-W22



Performance : 400 V 50 Hz 4P IE2 Rated current : 7.44 A Moment of inertia (J) : 0.4003 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 18.2 ft.lb Insulation class : F Rated torque Locked rotor torque : 210 % Service factor : 1.15 Breakdown torque : 280 % Temperature rise : 80 K : B Rated speed : 1445 rpm Design

Locked rotor time : 21s (cold) 12s (hot)

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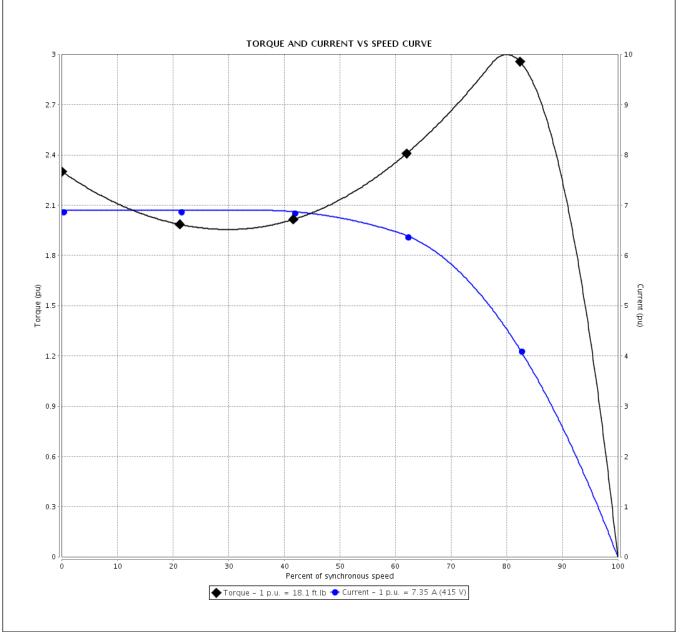
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11416668

Catalog #: 00518ET3E184T-W22



Performance : 415 V 50 Hz 4P IE2 Rated current : 7.35 A Moment of inertia (J) : 0.4003 sq.ft.lb **LRC** : 6.9 Duty cycle : Cont.(S1) : F Insulation class Rated torque : 18.1 ft.lb Locked rotor torque : 229 % Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1450 rpm Design : B

Locked rotor time : 21s (cold) 12s (hot)

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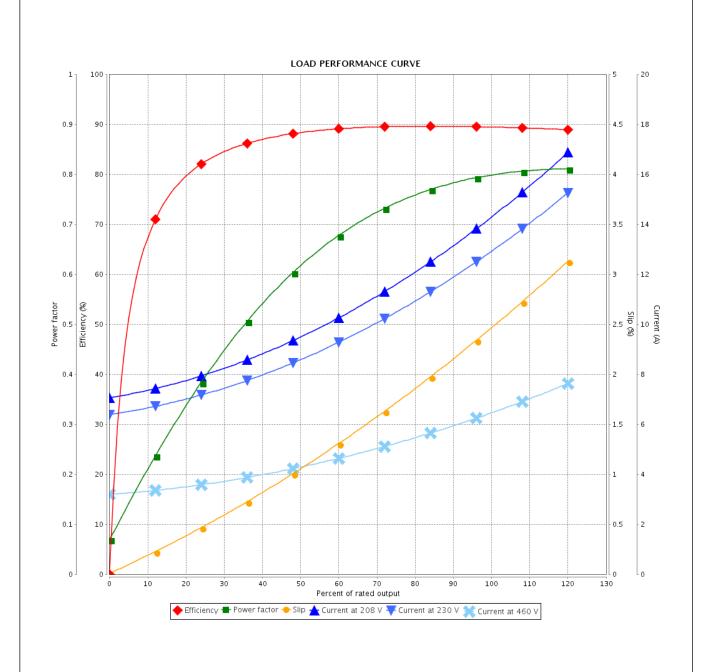


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Product line : W22 NEMA Premium Efficiency Product code: 11416668

Three-Phase

Catalog #: 00518ET3E184T-W22



Performance	: 2	30/460 V 60 Hz 4P				
Rated current	rent : 12.9/6.45 A Mon		Moment o	f inertia (J)	: 0.4003 sq.ft.lb	
LRC	: 7	5	Duty cycle	;	: Cont.(S1)	
Rated torque	: 1:	5.0 ft.lb	Insulation	class	: F	
Locked rotor torc	que : 2	29 %	Service fa	ctor	: 1.25	
Breakdown torqu	ie : 3	: 320 % Temperature rise		: 80 K		
Rated speed	: 1	755 rpm	Design		: B	
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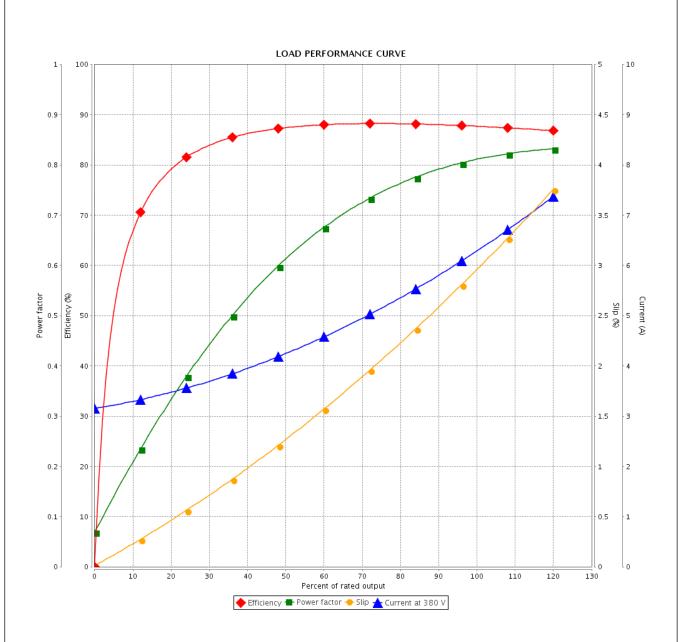
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Three-Phase

Product code: 11416668

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Performance	: 380 V 50 Hz 4P IE3				
Rated current : 6.42 A Moment of inertia (J) LRC : 7.0 Duty cycle		` '	: 0.4003 sq.ft. : Cont.(S1)	lb	
Rated torque Locked rotor torque	: 14.4 ft.lb : 229 %	Insulation class Service factor		: F : 1.15	
Breakdown torque Rated speed	: 300 % : 1455 rpm	Temperati Design	ıre rise	: 80 K : B	
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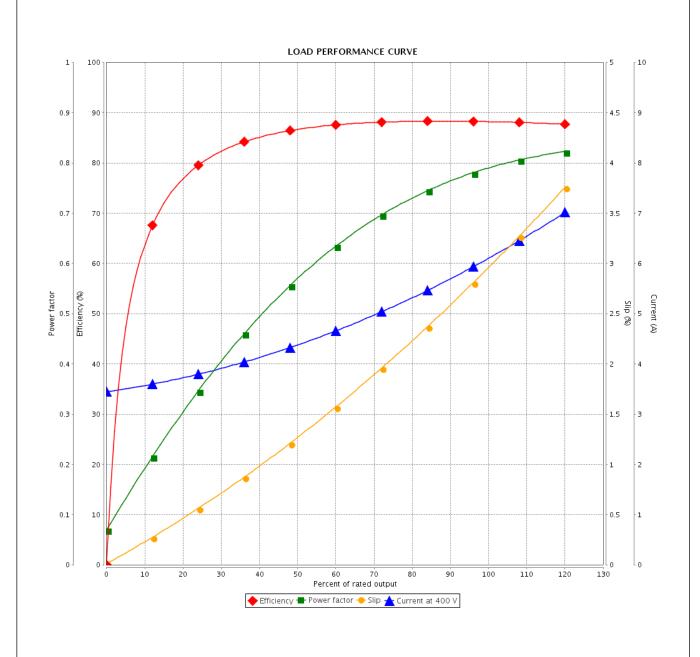
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11416668

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Performance	: 4	100 V 50 Hz 4P IE3				
Rated current : 6.13 A		Moment o	f inertia (J)	: 0.4003 sq.ft.	.lb	
LRC	: 7	7.7	Duty cycle)	: Cont.(S1)	
Rated torque	: 1	14.4 ft.lb	Insulation	class	: F	
Locked rotor torqu	ie : 2	260 %	Service fa	ctor	: 1.15	
Breakdown torque	: : 3	350 %	Temperati	ıre rise	: 80 K	
Rated speed	: 1	1455 rpm	Design		: B	
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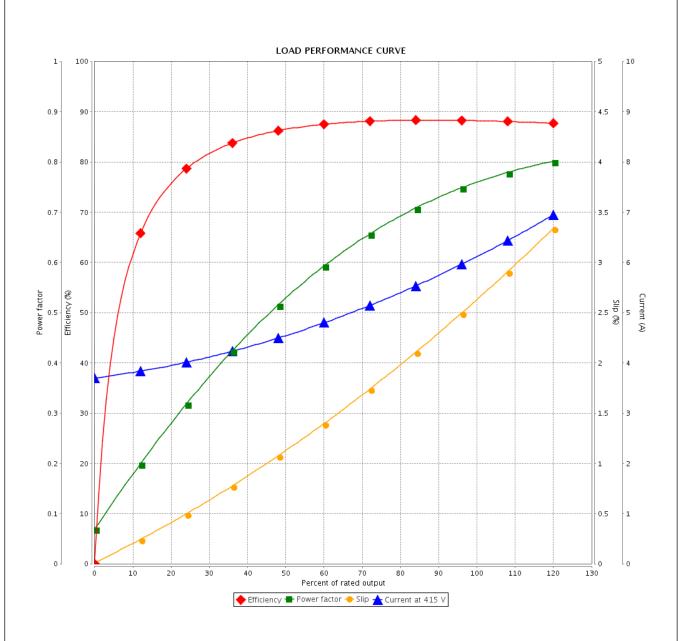
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11416668

Catalog #: 00518ET3E184T-W22



Df	. 445 V 50 H- 4D IFO						
Performance	: 415 V 50 Hz 4P IE3			-			
Rated current LRC	: 6.14 A : 8.2			, ,		: 0.4003 sq.ft.	lb
Rated torque	: 14.4 ft.lb	Duty cycle Insulation cla	ass	: Cont.(S1) : F			
Locked rotor torque	: 290 %	Service factor Temperature rise Design		: 1.15			
Breakdown torque Rated speed	: 380 % : 1460 rpm			: 80 K : B			
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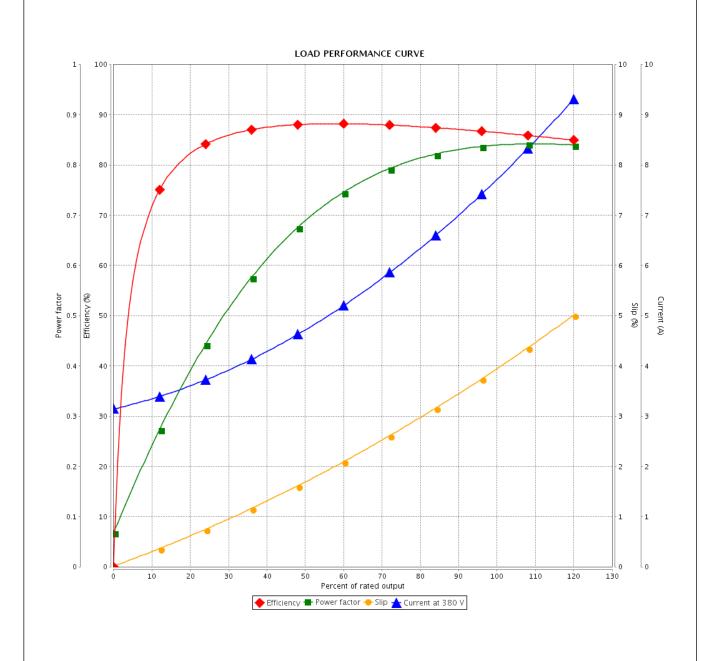
Customer

Product line : W22 NEMA Premium Efficiency Pro

Three-Phase

Product code: 11416668

Catalog #: 00518ET3E184T-W22



Performance	: 3	880 V 50 Hz 4P IE2				
Rated current	: 7	7.74 A	4 A Moment of inertia (J)		: 0.4003 sq.ft.lb	
LRC	: 5	5.8	Duty cycle	Duty cycle		
Rated torque	: 1	8.2 ft.lb	Insulation	Insulation class		
Locked rotor torqu	ıe : 1	80 %	Service fa	Service factor		
Breakdown torque	: 2	240 %	Temperature rise		: 80 K	
Rated speed : 1440 rpm De		Design		: B		
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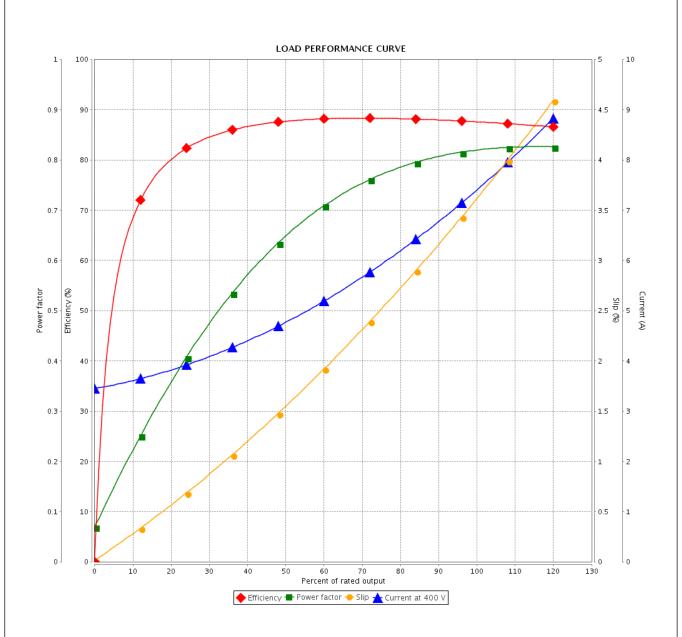
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11416668

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Performance	: 400 V 50 Hz 4P IE2				
Rated current LRC	: 7.44 A : 6.4	Moment of inertia (J) Duty cycle		: 0.4003 sq.ft. : Cont.(S1)	lb
Rated torque Locked rotor torque Breakdown torque Rated speed	: 18.2 ft.lb : 210 % : 280 % : 1445 rpm	Insulation class Service factor Temperature rise Design		: F : 1.15 : 80 K : B	
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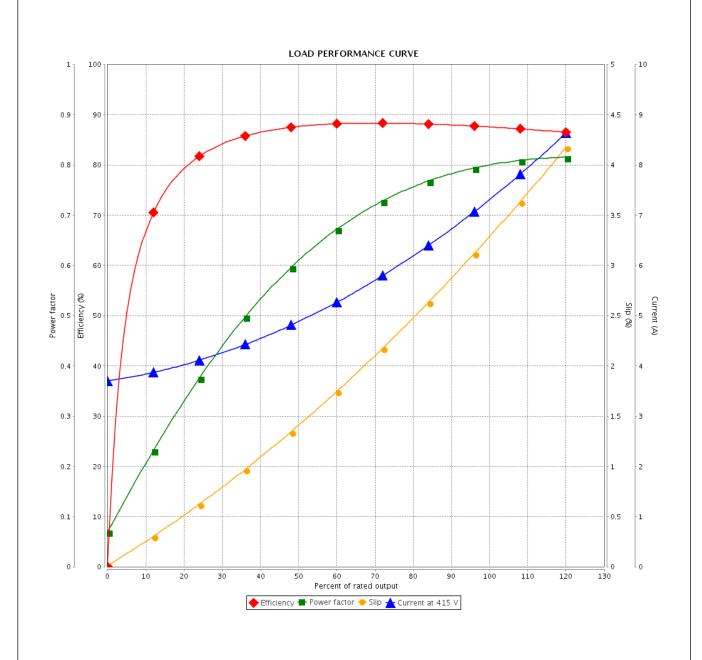
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11416668

Catalog #: 00518ET3E184T-W22



Performance	: 4	15 V 50 Hz 4P IE2					
Rated current	: 7	: 7.35 A Moment		f inertia (J)	: 0.4003 sq.ft.lb		
LRC	: 6	.9	Duty cycle	;	: Cont.(S1)		
Rated torque	: 1	8.1 ft.lb	Insulation class		: F		
Locked rotor torque	e :2	29 %	Service factor		: 1.15		
Breakdown torque		00 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 1	450 rpm	Design		: B		
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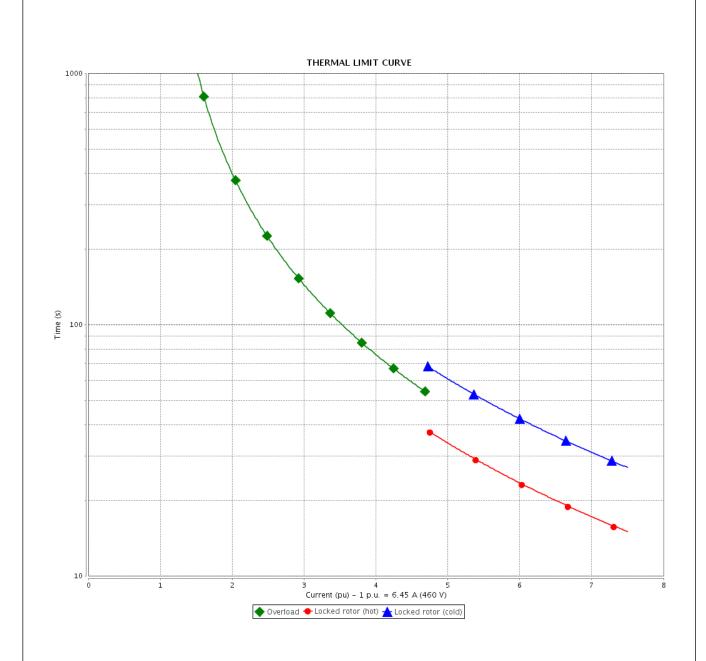


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Product line		NA/OO NICNAA Drawaii.wa Efficii		Product code :	11416668	
Productime		W22 NEMA Premium Efficie Three-Phase	ency	Froduct code .	11410000	
			1	Catalog # :	00518ET3E1	84T-W22
Performance		230/460 V 60 Hz 4P				
Rated current LRC		12.9/6.45 A 7.5	Moment o Duty cycle	f inertia (J)	: 0.4003 sq.ft.l : Cont.(S1)	b
Rated torque	: 1	15.0 ft.lb	Insulation	class	: F	
Locked rotor tord		229 % 320 %	Service fa		: 1.25	
Breakdown torqu Rated speed		1755 rpm	Temperatu Design	ire rise	: 80 K : B	
Heating constant			<u> </u>			
Cooling constant						
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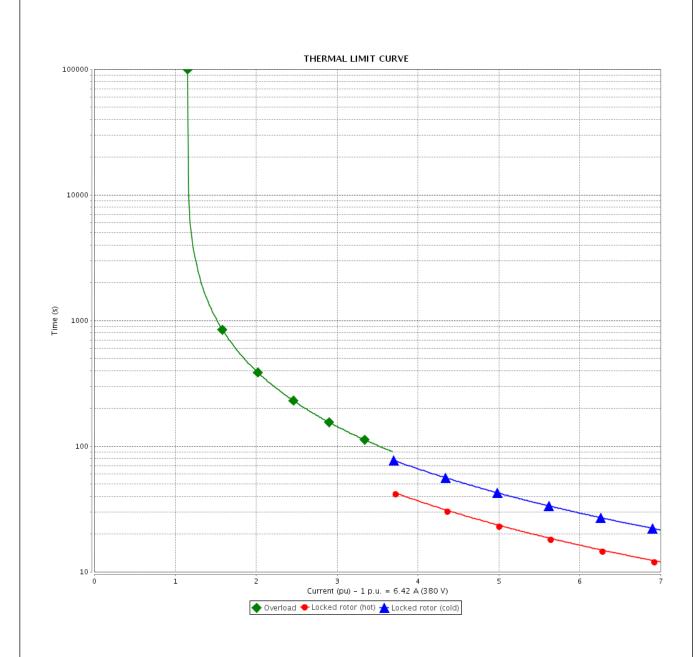


Customer		:				
Product line		: W22 NEMA Premium Effici	ency	Product code :	11416668	
		Three-Phase		Catalog # :	00518ET3E1	84T-\N/22
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Performance		: 380 V 50 Hz 4P IE3				
Rated current LRC		: 6.42 A : 7.0	Moment of Duty cycle	of inertia (J)	: 0.4003 sq.ft.l : Cont.(S1)	b
Rated torque		: 14.4 ft.lb	Insulation	class	: F	
Locked rotor tord	que :	: 229 %	Service fa	actor	: 1.15	
Breakdown torqu Rated speed		: 300 % : 1455 rpm	Temperat Design	ure rise	: 80 K : B	
			2001911			
Heating constant Cooling constant						
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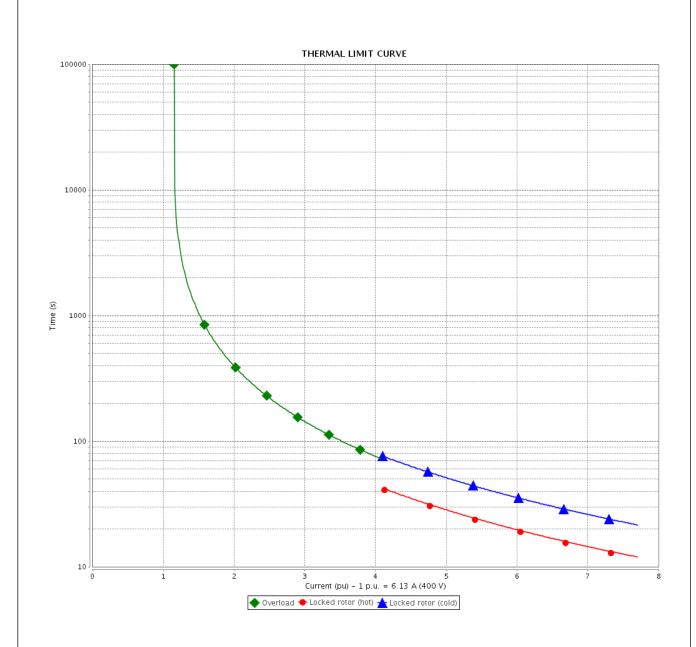


Customer		:				
Product line		: W22 NEMA Premium Efficion Three-Phase	ency l	Product code :	11416668	
			(Catalog # :	00518ET3E	184T-W22
Performance		400 V 50 Hz 4P IE3				
Rated current LRC		6.13 A 7.7	Moment of Duty cycle		: 0.4003 sq.ft. : Cont.(S1)	lb
Rated torque	:	14.4 ft.lb	Insulation		: F	
Locked rotor toro		260 %	Service fa		: 1.15	
Breakdown torqu Rated speed		350 % 1455 rpm	Temperatu Design	ire rise	: 80 K : B	
Heating constant		·				
Cooling constant						
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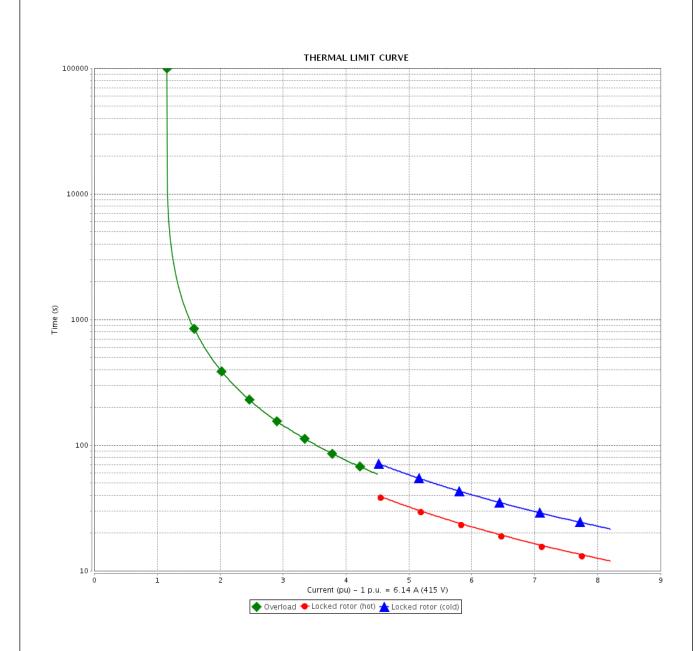


Customer		:				
Product line		: W22 NEMA Premium Effici Three-Phase	ency	Product code :	11416668	
		THIS THESE		Catalog # :	00518ET3E1	84T-W22
Performance		: 415 V 50 Hz 4P IE3				
Rated current		: 6.14 A	Moment of	of inertia (J)	: 0.4003 sq.ft.l	b
LRC Rated torque		: 8.2 : 14.4 ft.lb	Duty cycle Insulation	е	: Cont.(S1) : F	
Locked rotor tord		: 290 %	Service fa		. г : 1.15	
Breakdown torqu	ue	: 380 %	Temperat	ure rise	: 80 K	
Rated speed		: 1460 rpm	Design		: B	
Heating constant						
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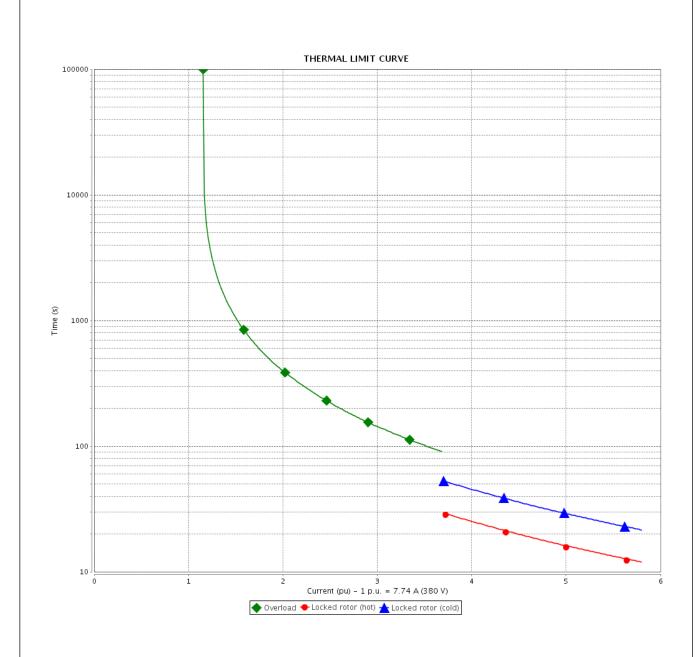


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Product line		: W22 NEMA Premium Efficie	onev.	Product code :	11416668	
i roduct line		Three-Phase				
			I	Catalog # :	00518ET3E1	84T-W22
Performance	:	380 V 50 Hz 4P IE2				
Rated current		7.74 A	Moment o	f inertia (J)	: 0.4003 sq.ft.l	b
LRC Rated torque		5.8 18.2 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor tord	jue :	180 %	Service fa	ctor	: 1.15	
Breakdown torqu Rated speed		240 % 1440 rpm	Temperatu Design	ıre rise	: 80 K : B	
			2001911			
Heating constant Cooling constant						
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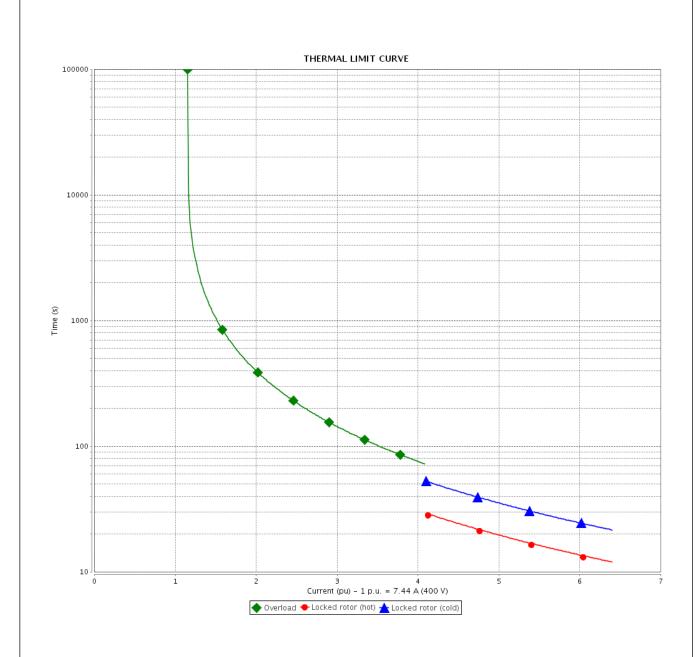


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Product line	: W22 NEMA Premium Effici Three-Phase		Product code :	11416668		
		(Catalog # :	00518ET3E	184T-W22	
Performance	: 400 V 50 Hz 4P IE2					
Rated current	: 7.44 A	Moment of	f inertia (J)	: 0.4003 sq.ft.	lb	
LRC	: 6.4	Duty cycle		: Cont.(S1)		
Rated torque Locked rotor torque	: 18.2 ft.lb : 210 %	Insulation Service fa		: F : 1.15		
Breakdown torque	: 280 %	Temperatu		: 80 K		
Rated speed	: 1445 rpm	Design		: B		
Heating constant						
Cooling constant						
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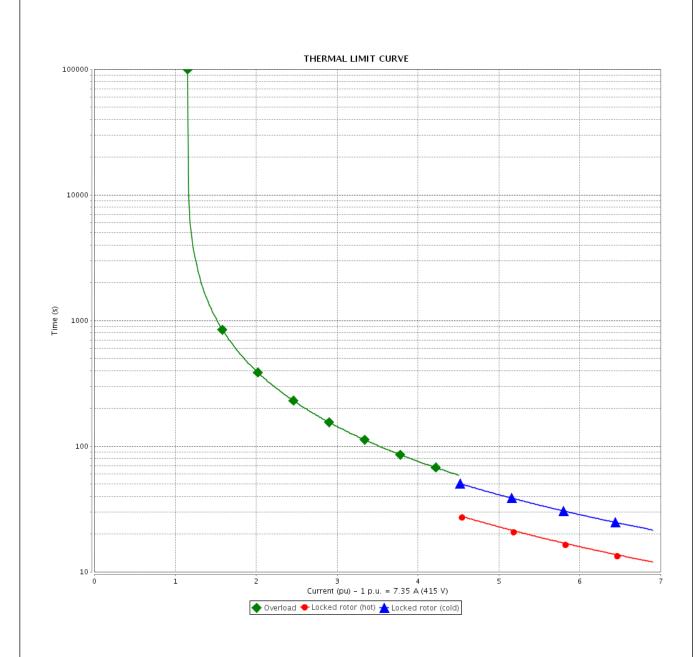


Customer		:				
Product line		: W22 NEMA Premium Efficion Three-Phase		Product code : Catalog # :	11416668 00518ET3E1	84T-W22
Performance		415 V 50 Hz 4P IE2				
Rated current		7.35 A	Moment o	f inertia (J)	: 0.4003 sq.ft.ll)
LRC		6.9	Duty cycle	9	: Cont.(S1)	
Rated torque Locked rotor tord		18.1 ft.lb 229 %	Insulation Service fa		: F : 1.15	
Breakdown torqu		300 %	Temperati		: 80 K	
Rated speed		1450 rpm	Design		: B	
Heating constant						
Cooling constant	L	Changes Cummany		Dorformed	Charlead	Doto
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Customer



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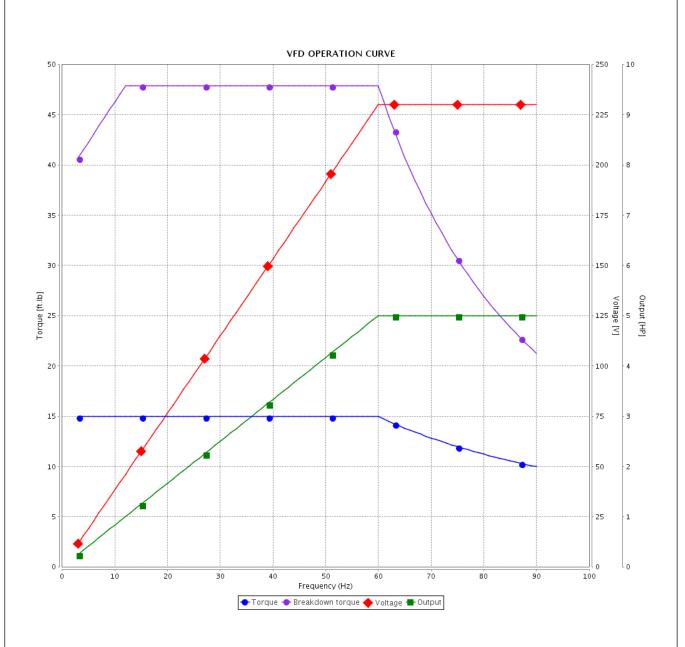
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11416668

Catalog #: 00518ET3E184T-W22



Performance	: 230/460 V 60 Hz 4P					
		Moment of inertia (J) : 0.4003		lb		
Rated torque	: 7.5 : 15.0 ft.lb	Duty cycle Insulation class		: Cont.(S1) : F		
Locked rotor torque	: 229 %	Service factor		: 1.25		
Breakdown torque	: 320 %	Temperature rise Design		: 80 K : B		
Rated speed	: 1755 rpm	Design		. D		
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Product line : W22 NEMA Premium Efficiency Pr

Three-Phase

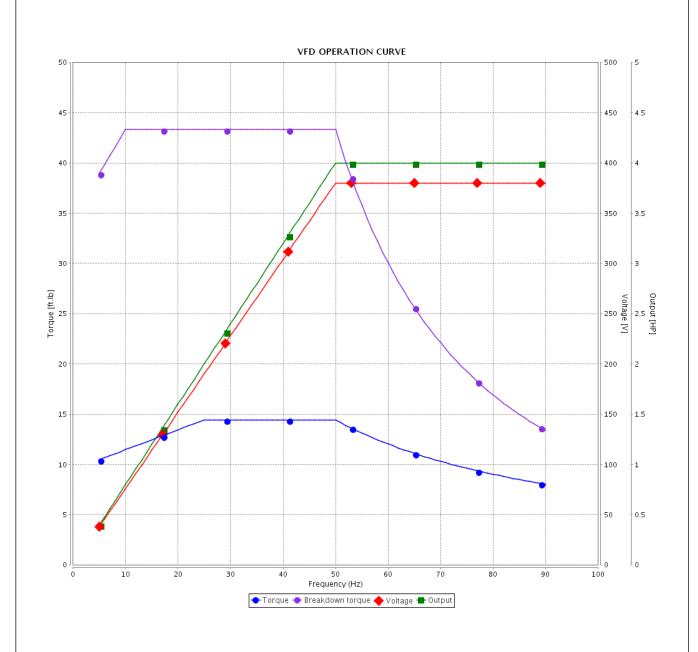
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Performance					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6.42 A : 7.0 : 14.4 ft.lb : 229 % : 300 % : 1455 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.4003 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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Performed by					

Three Phase Induction Motor - Squirrel Cage



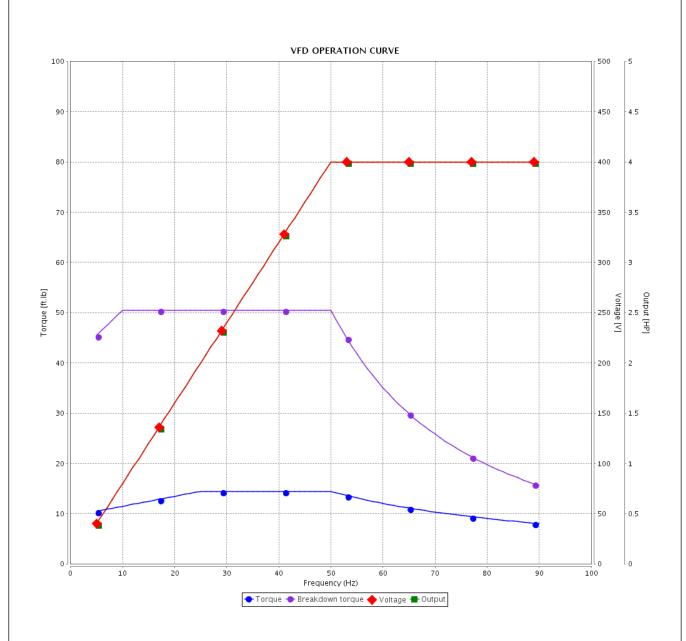
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11416668

Catalog #: 00518ET3E184T-W22



Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6.13 A : 7.7 : 14.4 ft.lb : 260 % : 350 % : 1455 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.4003 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
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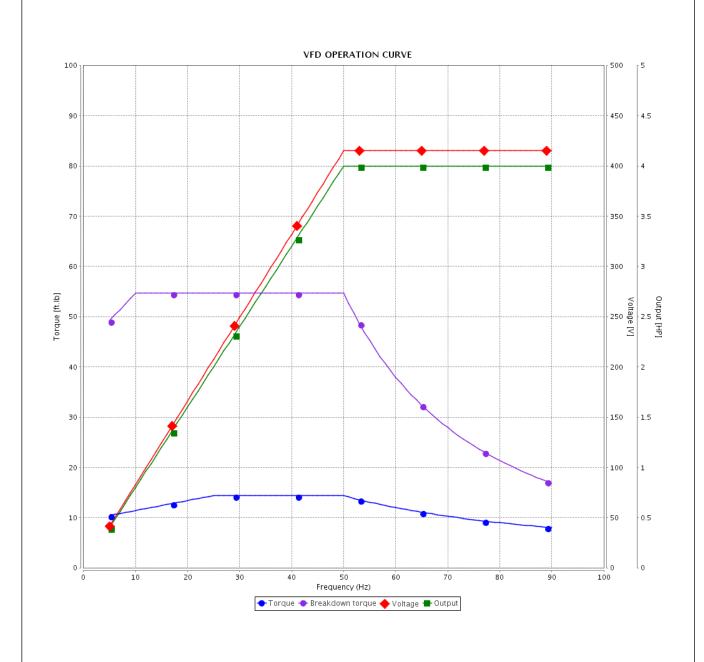
Customer

Product line : W22 NEMA Premium Efficiency F

Three-Phase

Product code: 11416668

Catalog #: 00518ET3E184T-W22



Performance	: 4	5 V 50 Hz 4P IE3				
Rated current	nt : 6.14 A Moment of inertia (J)		of inertia (J)	: 0.4003 sq.ft.lb		
LRC	: 8.	2	Duty cycle		: Cont.(S1)	
Rated torque	: 14	4.4 ft.lb	Insulation	class	: F	
Locked rotor torq	ue : 29	90 %	Service fa	actor	: 1.15	
Breakdown torqu	reakdown torque : 380 % Temperature rise		: 80 K			
Rated speed	: 14	460 rpm	Design		: B	
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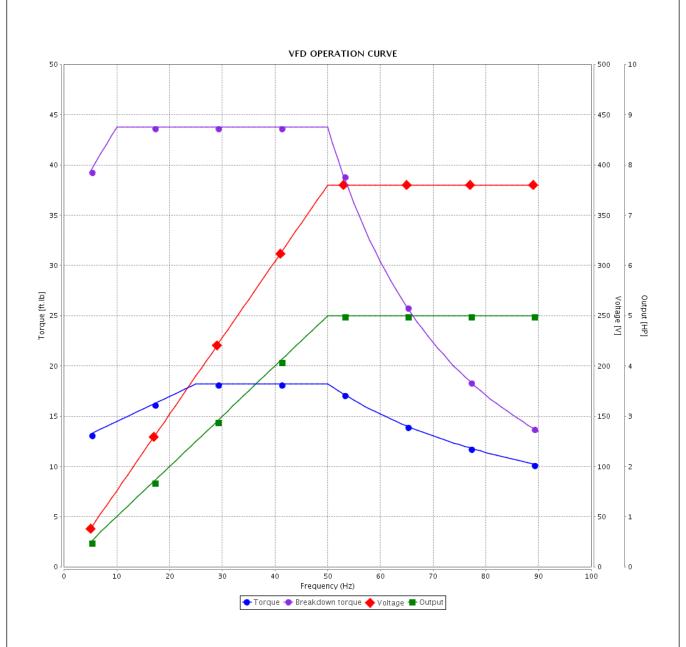
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11416668

Catalog #: 00518ET3E184T-W22



Performance : 380 V 50 Hz 4P IE2 : 7.74 A Rated current Moment of inertia (J) : 0.4003 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 5.8 Insulation class : 18.2 ft.lb : F Rated torque Locked rotor torque : 180 % Service factor : 1.15 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1440 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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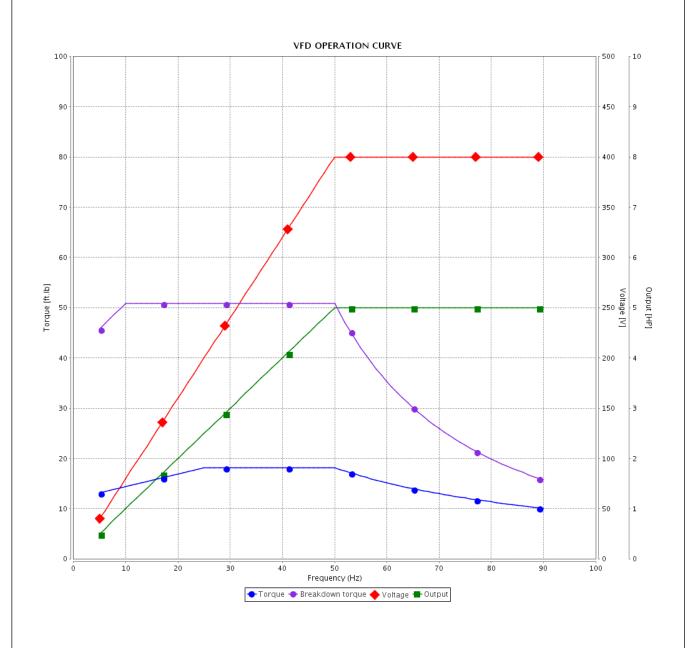
Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11416668

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Performance : 400 V 50 Hz 4P IE2 : 7.44 A Rated current Moment of inertia (J) : 0.4003 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 18.2 ft.lb Insulation class : F Rated torque Locked rotor torque : 210 % Service factor : 1.15 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1445 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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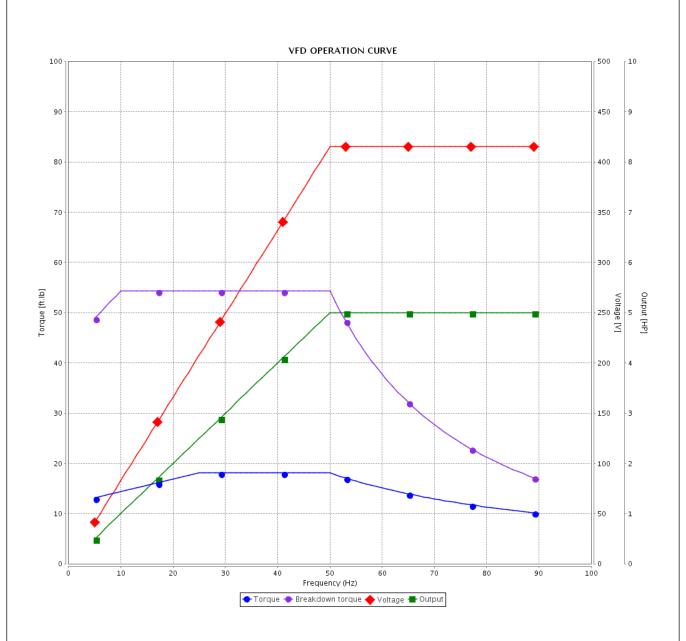
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11416668

Catalog #: 00518ET3E184T-W22



Performance	: 415 V 50 Hz 4P IE2				
Rated current	: 7.35 A	Moment of inertia (J)		: 0.4003 sq.ft.lb	
_RC	: 6.9	Duty cycle		: Cont.(S1)	
Rated torque	: 18.1 ft.lb	Insulation class		: F	
Locked rotor torque	: 229 %	Service factor		: 1.15	
Breakdown torque	: 300 %	Temperature rise		: 80 K	
Rated speed	: 1450 rpm	Design		: B	
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